

In the claims:

Please cancel claims 54 without prejudice.

Please amend claims 24, 33, 42 and 49 to read as follows:

1-23. (Cancelled)

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H-1
G1
24. (Currently Amended) A video graphics processing circuit comprises:

a processing unit; and

memory operably coupled to the processing unit, wherein the memory stores

programming instructions that, when executed by processing unit, cause a coupling controller of the processing unit to (a) receive display preferences regarding multiple displays; (b) determine whether the display preferences can be fulfilled in observance of at least one of: configuration properties of the multiple displays and configuration properties of a computing system, the coupling controller determining whether a current configuration of the multiple displays to the computing system can be reconfigured such that the display preferences can be fulfilled while maintaining effective configuration of the current configuration when the display preferences cannot be fulfilled; (c) configure the computing system and the multiple displays in accordance with the display preferences when the display preferences can be fulfilled, and reconfigure operable coupling of the multiple displays to the computing system such that the multiple displays are configured in accordance with the display preferences when the current configuration can be reconfigured; (d) operably couple a display controller of the computing system to the multiple displays, the display controller providing display data to the multiple displays; (e) operably couple the display controller to a plurality of screen memories, each of the plurality of the screen memories storing separate display data and the display controller retrieving the display data from the plurality of screen memories; and (f) operably couple the display controller to a plurality of display drivers such that a first display driver is coupled

to a first screen memory portion and a second screen memory portion, each of the plurality of display drivers writing the separate display data to the plurality of screen memories.

25-28. (Cancelled)

2 ~~29~~. (Previously Amended) The video graphics processing circuit of claim ~~24~~¹, wherein the memory further comprises programming instructions that cause the processing unit to operably couple a first display controller of the computing system to a first display of the at least one of the multiple displays and operably coupling a second display controller of the computing system to a second display of the multiple displays.

3 ~~30~~. (Previously Amended) The video graphics processing circuit of claim ~~29~~², wherein the memory further comprises programming instructions that cause the processing unit to operably couple the first display controller to a third display of the multiple displays.

6 4 ~~31~~. (Previously Amended) The video graphics processing circuit of claim ~~24~~¹, wherein the memory further comprises programming instructions that cause the processing unit to operably couple a first display controller of the computing system to a first display of the multiple displays, operably coupling a second display controller of the computing system to a second display of the multiple displays, and operably coupling the first and second display controllers to one of the screen memory.

5 ~~32~~. (Previously added) The video graphics processing circuit of claim ~~31~~⁴, wherein the memory further comprises programming instructions that cause the processing unit to operably couple at least two of the multiple displays to one of a plurality of screen memories.

6 ~~33~~. (Currently Amended) A digital storage medium for storing programming instructions that, when executed by a processing unit, cause the processing unit to configure multiple displays associated with a computing system, the digital storage medium comprises:

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first means for storing programming instructions that cause a coupling controller of the processing unit to receive display preferences regarding the multiple displays;

second means for storing programming instructions that cause the coupling controller of the processing unit to determine whether the display preferences can be fulfilled in observance of at least one of: configuration properties of the multiple displays and configuration properties of the computing system;

third means for storing programming instructions that cause the coupling controller of the processing unit to configure the computing system and the multiple displays in accordance with the display preferences when the display preferences can be fulfilled;

fourth means for storing programming instructions that cause the processing unit to:

- determine whether a current configuration of the multiple displays to the computing system can be reconfigured such that the display preferences can be fulfilled while maintaining effective configuration of the current configuration when the display preferences cannot be fulfilled;
- reconfigure operable coupling of the multiple displays to the computing system such that the multiple displays are configured in accordance with the display preferences when the current configuration can be reconfigured;
- operably couple a display controller of the computing system to the multiple displays, the display controller providing display data to the multiple displays;
- operably couple the display controller to at a plurality of screen memories, each of the plurality of the screen memories storing separate display data and the display controller retrieving the display data from the at least one of the plurality of screen memories; and
- operably couple the display controller to a plurality of display drivers such that a first display driver is coupled to a first screen memory portion and a second screen memory portion, each of the plurality of display drivers writing the separate display data to the plurality of screen memories.

34-37. (Cancelled)

7 ~~38~~. (Previously Amended) The digital storage medium of claim ~~33~~⁶ further comprises means for storing programming instructions that cause the processing unit to operably couple a first display controller of the computing system to a first display of the multiple displays and operably coupling a second display controller of the computing system to a second display of the multiple displays.

8 ~~39~~. (Previously Amended) The digital storage medium of claim ~~38~~⁷ further comprises means for storing programming instructions that cause the processing unit to operably couple the first display controller to a third display of the multiple displays.

6 9 ~~40~~. (Previously Amended) The digital storage medium of claim ~~33~~⁶ further comprises means for storing programming instructions that cause the processing unit to operably couple a first display controller of the computing system to a first display of the multiple displays, operably coupling a second display controller of the computing system to a second display of the multiple displays, and operably coupling the first and second display controllers to a screen memory.

10 ~~41~~. (Previously added) The digital storage medium of claim ~~40~~⁹ further comprises means for storing programming instructions that cause the processing unit to operably couple at least two of the multiple displays to one of a plurality of screen memories.

11 ~~42~~. (Currently Amended) A video graphics processing circuit for displaying at least one image on a plurality of displays, comprising:

a plurality of display controllers included on a single video graphics card;

a plurality of drivers;

memory, wherein at least a portion of the memory is screen memory, the screen memory

having a plurality of screen memory portions, each of the plurality of screen memory portions storing separate display data;

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coupling module operably coupled to a plurality of displays and the screen memory; and
a coupling controller operably coupled to receive display preferences and to determine
whether the display preferences can be fulfilled in observance of configuration
properties, the display preferences including at least one of displaying an image
on more than one of the displays, displaying separate images on each of the
displays, displaying a portion of the image on one of the displays and displaying
the image on another one of the multiple displays, providing different refresh
rates for at least two of the displays, providing different resolutions for at least
two of the displays, selecting one of the displays to display a predetermined type
of image, and displaying a first portion of the image on a first one of the displays
and displaying a second portion of the image on a second one of the displays;
wherein, when the display preferences can be fulfilled, the coupling controller provides
configuration requirements to the coupling module, wherein the coupling module,
based on the configuration requirements, operably couples at least one of the
plurality of display controllers with at least a portion of the screen memory, such
that a first display driver is coupled to a first screen memory portion and a second
screen memory portion, and with at least one display, a respective display driver
of the plurality of display drivers thereby writing respective separate display data
to a respective one of the plurality of screen memory portions, and wherein the at
least one of the plurality of display controllers retrieves display data from the at
least a portion of the screen memory and provides the display data to the at least
one display, and wherein the coupling controller provides reconfiguration
requirements to the coupling module when the display preferences cannot be
fulfilled but a current configuration of the plurality of display controllers to the at
least one display can be reconfigured such that the display preferences can be
fulfilled while maintaining effective configuration of the current configuration.

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12 ~~43~~ (Previously added) The video graphics processing circuit of claim ~~42~~ further
comprises a graphics engine operably coupled, via the coupling module, to at least one of the
plurality of display controllers and at least one of the display drivers.

13 ~~44~~ (Previously added) The video graphics processing circuit of claim ~~42~~¹¹ further comprises a user interface that is operably coupled to the coupling controller and to receive the display preferences from a user.

14 ~~45~~ (Previously added) The video graphics processing circuit of claim ~~42~~¹¹, wherein the memory further comprises properties memory that stores configuration properties of the plurality of display controllers and the at least one display, wherein the configuration properties include at least one of: limitations of the plurality of display controllers and the at least one display and operational rules of the plurality of display controllers and the at least one display.

6 15 ~~46~~ (Previously Amended) The video graphics processing circuit of claim ~~42~~¹¹, wherein the configuration requirements cause the coupling module to operably couple a first display controller of the plurality of display controllers to a first display and operably couple a second display controller of the plurality of display controllers to a second display.

16 ~~47~~ (Previously Amended) The video graphics processing circuit of claim ~~46~~¹⁵, wherein the configuration requirements cause the coupling module to operably couple the first display controller to a third display.

17 ~~48~~ (Previously Amended) The video graphics processing circuit of claim ~~42~~¹¹, wherein the configuration requirements cause the coupling module to operably couple a first display controller of the plurality of display controllers to a first display, operably coupling a second display controller of the plurality of display controllers to a second display, and operably coupling the first and second display controllers to the screen memory.

18 ~~49~~ (Currently Amended) A video graphics processing apparatus that configures a plurality of displays associated with a computer system, the apparatus comprising:
screen memory comprising a plurality of screen memory portions, each of the plurality of screen memory portions storing display data for the plurality of displays;

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a plurality of display controllers included on a single video graphics card, each of the plurality of display controllers retrieving display data from a screen memory portion and providing the display data to at least one display associated with the screen memory portion;

a plurality of display drivers that write the display data into the plurality of screen memory portions;

a coupling module coupled to the plurality of display controllers, the plurality of display drivers, and the screen memory, the coupling module comprising means for switching the plurality of display drivers and the plurality of display controllers to appropriate screen memory portions; and

a coupling controller coupled to the coupling module, the coupling controller controlling, in response to configuration properties, access to predetermined screen memory portions by the plurality of display drivers, the coupling controller further controlling, in response to the configuration properties, coupling of predetermined screen memory portions to the plurality of display controllers, wherein the configuration properties comprise means for causing the coupling controller to couple a first display driver of the plurality of display drivers to a first and a second screen memory portion of the plurality of screen memory portions.

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19 ~~50~~. (Previously added) The apparatus of claim ~~49~~ wherein the configuration properties comprise means for causing the coupling controller to couple a first screen memory portion to more than one of the plurality of display controllers.

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20 ~~51~~. (Previously added) The apparatus of claim ~~49~~ and further including a user interface coupled to the coupling controller, the user interface entering display preferences for the plurality of displays.

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21 ~~52~~. (Previously added) The apparatus of claim ~~49~~ wherein the screen memory further comprises configuration memory that stores the configuration properties of the plurality of

displays, the configuration properties including at least one of: display refresh rate, display resolution, and type of display.

22 ~~53~~. (Previously added) The apparatus of claim ~~49~~¹⁸ wherein the configuration properties comprise means for causing the coupling controller to couple a first display controller of the plurality of display controllers to a first and a second display of the plurality of displays.

54. (Currently cancelled)

~~55~~. (Cancelled)